## **RAW SEQUENCE LISTING**

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) no errors detected.

Application Serial Number:	10/653,676A
Source:	
Date Processed by STIC:	

## ENTERED



**IFWO** 

RAW SEQUENCE LISTING DATE: 01/13/2005
PATENT APPLICATION: US/10/653,676A TIME: 09:46:30

```
1 <110> APPLICANT: Gurney, Mark E.
             Li, Jinhe
     2
             Pauley, Adele M.
     3
             Pharmacia & Upjohn Company
     5 <120> TITLE OF INVENTION: Human Sel-10 Polypeptides and Polynucleotides that
             Encode Them
     7 <130> FILE REFERENCE: 6142
C--> 8 <140> CURRENT APPLICATION NUMBER: US/10/653,676A
     9 <141> CURRENT FILING DATE: 2003-09-02
    10 <150> PRIOR APPLICATION NUMBER: US/09/213,888
    11 <151> PRIOR FILING DATE: 1998-12-17
    12 <160> NUMBER OF SEQ ID NOS: 27
    13 <170> SOFTWARE: PatentIn Ver. 2.0
    15 <210> SEQ ID NO: 1
    16 <211> LENGTH: 3550
    17 <212> TYPE: DNA
    18 <213> ORGANISM: Homo sapiens
    19 <220> FEATURE:
    20 <221> NAME/KEY: unsure
    21 <222> LOCATION: (2485)
    22 <220> FEATURE:
    23 <221> NAME/KEY: unsure
    24 <222> LOCATION: (3372)
    25 <400> SEQUENCE: 1
              ctcattattc cctcgagttc ttctcagtca agctgcatgt atgtatgtgt gtcccgagaa 60
    26
              gcggtttgat actgagctgc atttgccttt actgtggagt tttgttgccg gttctgctcc 120
     27
              ctaatcttcc ttttctgacg tgcctgagca tgtccacatt agaatctgtg acatacctac 180
    28
              ctgaaaaagg tttatattgt cagagactgc caagcagccg gacacacggg ggcacagaat 240
    29
              cactgaaggg gaaaaataca gaaaatatgg gtttctacgg cacattaaaa atgatttttt 300
     30
              acaaaatgaa aagaaagttg gaccatggtt ctgaggtccg ctctttttct ttgggaaaga 360
     31
              aaccatgcaa agtctcagaa tatacaagta ccactgggct tgtaccatgt tcagcaacac 420
     32
              caacaacttt tggggacctc agagcagcca atggccaagg gcaacaacga cgccgaatta 480
     33
              catctgtcca gccacctaca ggcctccagg aatggctaaa aatgtttcag agctggagtg 540
     34
              gaccagagaa attgcttgct ttagatgaac tcattgatag ttgtgaacca acacaagtaa 600
     35
              aacatatgat gcaagtgata gaaccccagt ttcaacgaga cttcatttca ttgctcccta 660
     36
              aaqaqttqqc actctatqtq ctttcattcc tggaacccaa agacctgcta caagcagctc 720
     37
              agacatgtcg ctactggaga attttggctg aagacaacct tctctggaga gagaaatgca 780
     38
              aagaagagg gattgatgaa ccattgcaca tcaagagaag aaaagtaata aaaccaggtt 840
     39
              tcatacacaq tccatggaaa agtgcataca tcagacagca cagaattgat actaactgga 900
     40
              ggcgaggaga actcaaatct cctaaggtgc tgaaaggaca tgatgatcat gtgatcacat 960
     41
              gcttacagtt ttgtggtaac cgaatagtta gtggttctga tgacaacact ttaaaagttt 1020
     42
              ggtcagcagt cacaggcaaa tgtctgagaa cattagtggg acatacaggt ggagtatggt 1080
     43
              catcacaaat gagagacaac atcatcatta gtggatctac agatcggaca ctcaaagtgt 1140
     44
```

```
ggaatgcaga gactggagaa tgtatacaca ccttatatgg gcatacttcc actgtgcgtt 1200
    45
             gtatgcatct tcatgaaaaa agagttgtta gcggttctcg agatgccact cttagggttt 1260
    46
             gggatattga gacaggccag tgtttacatg ttttgatggg tcatgttgca gcagtccgct 1320
    47
             gtgttcaata tgatggcagg agggttgtta gtggagcata tgattttatg gtaaaggtgt 1380
    48
             gggatccaga gactgaaacc tgtctacaca cgttgcaggg gcatactaat agagtctatt 1440
    49
             cattacagtt tgatggtatc catgtggtga gtggatctct tgatacatca atccgtgttt 1500
    50
             qqqatqtqqa qacaqqqaat tqcattcaca cgttaacagg gcaccagtcg ttaacaagtg 1560
    51
             gaatggaact caaagacaat attettgtet etgggaatge agattetaca gttaaaatet 1620
    52
             gggatatcaa aacaggacag tgtttacaaa cattgcaagg tcccaacaag catcagagtg 1680
    53
              ctgtgacctg tttacagttc aacaagaact ttgtaattac cagctcagat gatggaactg 1740
    54
              taaaactatg ggacttgaaa acgggtgaat ttattcgaaa cctagtcaca ttggagagtg 1800
    55
              gggggagtgg gggagttgtg tggcggatca gagcctcaaa cacaaagctg gtgtgtgcag 1860
    56
              ttgggagtcg gaatgggact gaagaaacca agctgctggt gctggacttt gatgtggaca 1920
    57
              tgaagtgaag agcagaaaag atgaatttgt ccaattgtgt agacgatata ctccctgccc 1980
    58
              ttccccctgc aaaaagaaaa aaagaaaaga aaaagaaaaa aatcccttgt tctcagtggt 2040
    59
              gcaggatgtt ggcttggggc aacagattga aaagacctac agactaagaa ggaaaagaag 2100
     60
              aagagatgac aaaccataac tgacaagaga ggcgtctgct gtctcatcac ataaaaggct 2160
     61
              tcacttttga ctgagggcag ctttgcaaaa tgagactttc taaatcaaac caggtgcaat 2220
     62
              tatttcttta ttttcttctc cagtggtcat tggggcagtg ttaatgctga aacatcatta 2280
     63
              cagattctgc tagcctgttc ttttaccact gacagctaga cacctagaaa ggaactgcaa 2340
     64
              taatatcaaa acaagtactg gttgactttc taattagaga gcatctgcaa caaaaagtca 2400
     65
              tttttctgga gtggaaaagc ttaaaaaaat tactgtgaat tgtttttgta cagttatcat 2460
     66
              gaaaagettt ttttttatt ttttngccaa ccattgccaa tgtcaatcaa tcacagtatt 2520
W--> 67
              agcctctgtt aatctattta ctgttgcttc catatacatt cttcaatgca tatgttgctc 2580
     68
              aaaggtggca agttgtcctg ggttctgtga gtcctgagat ggatttaatt cttgatgctg 2640
     69
              gtgctagaag taggtcttca aatatgggat tgttgtccca accctgtact gtactcccag 2700
     70
              tggccaaact tatttatgct gctaaatgaa agaaagaaaa aagcaaatta tttttttat 2760
     71
              tttttttctg ctgtgacgtt ttagtcccag actgaattcc aaatttgctc tagtttggtt 2820
     72
              atggaaaaaa gactttttgc cactgaaact tgagccatct gtgcctctaa gaggctgaga 2880
     73
              atggaagagt ttcagataat aaagagtgaa gtttgcctgc aagtaaagaa ttgagagtgt 2940
     74
              gtgcaaagct tattttcttt tatctgggca aaaattaaaa cacattcctt ggaacagagc 3000
     75
              tattacttgc ctgttctgtg gagaaacttt tctttttgag ggctgtggtg aatggatgaa 3060
     76
              cgtacatcgt aaaactgaca aaatatttta aaaatatata aaacacaaaa ttaaaataaa 3120
     77
              gttgctggtc agtcttagtg ttttacagta tttgggaaaa caactgttac agttttattg 3180
     78
              ctctgagtaa ctgacaaagc agaaactatt cagtttttgt agtaaaggcg tcacatgcaa 3240
     79
              acaaacaaaa tgaatgaaac agtcaaatgg tttgcctcat tctccaagag ccacaactca 3300
     80
              agetgaactg tgaaagtggt ttaacactgt atcetaggeg atettttte eteettetgt 3360
     81
              ttattttttt gnttgtttta tttatagtct gatttaaaac aatcagattc aagttggtta 3420
     82
              attttagtta tgtaacaacc tgacatgatg gaggaaaaca acctttaaag ggattgtgtc 3480
     83
              tatqqtttqa ttcacttaga aattttattt tcttataact taagtgcaat aaaatgtgtt 3540
     84
                                                                                 3550
     85
              ttttcatqtt
     87 <210> SEQ ID NO: 2
     88 <211> LENGTH: 3571
     89 <212> TYPE: DNA
     90 <213> ORGANISM: Homo sapiens
     91 <220> FEATURE:
     92 <221> NAME/KEY: unsure
     93 <222> LOCATION: (2506)
     94 <220> FEATURE:
```

```
95 <221> NAME/KEY: unsure
    96 <222> LOCATION: (3393)
    97 <400> SEQUENCE: 2
             ctcagcaggt caggacattt ggtaggggaa ggttgaaaga caaaagcagc aggccttggg 60
    98
            ttctcagcct tttaaaaact attattaaat atatatttt aaaatttagt ggttagagct 120
    99
              tttagtaatg tgcctgtatt acatgtagag agtattcgtc aaccaagagg agttttaaaa 180
    100
              tqtcaaaacc qqqaaaacct actctaaacc atggcttggt tcctgttgat cttaaaagtg 240
    101
              caaaagagcc tctaccacat caaaccgtga tgaagatatt tagcattagc atcattgccc 300
    102
              aaggeeteee tttttgtega agacggatga aaagaaagtt ggaccatggt tetgaggtee 360
    103
              qctctttttc tttgggaaag aaaccatgca aagtctcaga atatacaagt accactgggc 420
    104
              ttgtaccatg ttcagcaaca ccaacaactt ttggggacct cagagcagcc aatggccaag 480
    105
              qqcaacaacq acqccqaatt acatctgtcc agccacctac aggcctccag gaatggctaa 540
    106
              aaatgtttca gagctggagt ggaccagaga aattgcttgc tttagatgaa ctcattgata 600
    107
              qttqtqaacc aacacaaqta aaacatatga tgcaagtgat agaaccccag tttcaacgag 660
    108
              acttcatttc attgctccct aaagagttgg cactctatgt gctttcattc ctggaaccca 720
    109
    110
              aagacctgct acaagcagct cagacatgtc gctactggag aattttggct gaagacaacc 780
    111
              ttctctggag agagaaatgc aaagaagagg ggattgatga accattgcac atcaagagaa 840
              gaaaagtaat aaaaccaggt ttcatacaca gtccatggaa aagtgcatac atcagacagc 900
    112
              acagaattga tactaactgg aggcgaggag aactcaaatc tcctaaggtg ctgaaaggac 960
    113
              atgatgatca tgtgatcaca tgcttacagt tttgtggtaa ccgaatagtt agtggttctg 1020
    114
              atgacaacac tttaaaagtt tggtcagcag tcacaggcaa atgtctgaga acattagtgg 1080
    115
              gacatacagg tggagtatgg tcatcacaaa tgagagacaa catcatcatt agtggatcta 1140
    116
    117
              cagateggae acteaaagtg tggaatgeag agaetggaga atgtataeae acettatatg 1200
              ggcatacttc cactgtgcgt tgtatgcatc ttcatgaaaa aagagttgtt agcggttctc 1260
    118
              gagatgccac tcttagggtt tgggatattg agacaggcca gtgtttacat gttttgatgg 1320
    119
              gtcatgttgc agcagtccgc tgtgttcaat atgatggcag gagggttgtt agtggagcat 1380
    120
    121
              atgattttat qqtaaaqqtq tqqqatccaq aqactqaaac ctgtctacac acgttgcagg 1440
              qqcatactaa taqaqtctat tcattacagt ttgatggtat ccatgtggtg agtggatctc 1500
    122
              ttgatacatc aatccgtgtt tgggatgtgg agacagggaa ttgcattcac acgttaacag 1560
     123
              ggcaccagtc gttaacaagt ggaatggaac tcaaagacaa tattcttgtc tctgggaatg 1620
     124
              cagattctac agttaaaatc tgggatatca aaacaggaca gtgtttacaa acattgcaag 1680
     125
              gtcccaacaa gcatcagagt gctgtgacct gtttacagtt caacaagaac tttgtaatta 1740
     126
              ccagctcaga tgatggaact gtaaaactat gggacttgaa aacgggtgaa tttattcgaa 1800
     127
     128
              acctaqtcac attqqaqaqt qqqqqqaqtg ggggagttgt gtggcggatc agagcctcaa 1860
              acacaaagct ggtgtgtgca gttgggagtc ggaatgggac tgaagaaacc aagctgctgg 1920
     129
              tgctggactt tgatgtggac atgaagtgaa gagcagaaaa gatgaatttg tccaattgtg 1980
     130
              131
              aaatcccttg ttctcagtgg tgcaggatgt tggcttgggg caacagattg aaaagaccta 2100
     132
              cagactaaga aggaaaagaa gaagagatga caaaccataa ctgacaagag aggcgtctgc 2160
     133
              tgtctcatca cataaaaggc ttcacttttg actgagggca gctttgcaaa atgagacttt 2220
     134
              ctaaatcaaa ccaggtgcaa ttatttcttt attttcttct ccagtggtca ttggggcagt 2280
     135
              gttaatgctg aaacatcatt acagattctg ctagcctgtt cttttaccac tgacagctag 2340
     136
              acacctagaa aggaactgca ataatatcaa aacaagtact ggttgacttt ctaattagag 2400
     137
              agcatctgca acaaaaagtc atttttctgg agtggaaaag cttaaaaaaa ttactgtgaa 2460
     138
              ttgtttttgt acagttatca tgaaaagctt tttttttat tttttngcca accattgcca 2520
W--> 139
              atqtcaatca atcacaqtat taqcctctgt taatctattt actgttgctt ccatatacat 2580
     140
              tetteaatge atatgttget caaaggtgge aagttgteet gggttetgtg agteetgaga 2640
     141
              tqqatttaat tettgatget ggtgetagaa gtaggtette aaatatggga ttgttgteec 2700
     142
              aaccctgtac tgtactccca gtggccaaac ttatttatgc tgctaaatga aagaaagaaa 2760
     143
```

```
aaagcaaatt attttttta tttttttct gctgtgacgt tttagtccca gactgaattc 2820
144
          caaatttgct ctagtttggt tatggaaaaa agactttttg ccactgaaac ttgagccatc 2880
145
          tgtgcctcta agaggctgag aatggaagag tttcagataa taaagagtga agtttgcctg 2940
146
          caagtaaaga attgagagtg tgtgcaaagc ttattttctt ttatctgggc aaaaattaaa 3000
147
          acacattcct tggaacagag ctattacttg cctgttctgt ggagaaactt ttctttttga 3060
148
          gggctgtggt gaatggatga acgtacatcg taaaactgac aaaatatttt aaaaatatat 3120
149
          aaaacacaaa attaaaataa agttgctggt cagtcttagt gttttacagt atttgggaaa 3180
150
          acaactgtta cagttttatt gctctgagta actgacaaag cagaaactat tcagtttttg 3240
151
          taqtaaaggc gtcacatgca aacaaacaaa atgaatgaaa cagtcaaatg gtttgcctca 3300
152
          ttctccaaga gccacaactc aagctgaact gtgaaagtgg tttaacactg tatcctaggc 3360
153
          gatctttttt cctccttctg tttatttttt tgnttgtttt atttatagtc tgatttaaaa 3420
154
          caatcagatt caagttggtt aattttagtt atgtaacaac ctgacatgat ggaggaaaac 3480
155
          aacctttaaa gggattgtgt ctatggtttg attcacttag aaattttatt ttcttataac 3540
156
                                                                             3571
          ttaaqtqcaa taaaatgtgt tttttcatgt t
157
159 <210> SEQ ID NO: 3
160 <211> LENGTH: 627
161 <212> TYPE: PRT
162 <213> ORGANISM: Homo sapiens
163 <400> SEQUENCE: 3
          Met Cys Val Pro Arg Ser Gly Leu Ile Leu Ser Cys Ile Cys Leu Tyr
164
                                                10
165
          Cys Gly Val Leu Leu Pro Val Leu Leu Pro Asn Leu Pro Phe Leu Thr
166
167
          Cys Leu Ser Met Ser Thr Leu Glu Ser Val Thr Tyr Leu Pro Glu Lys
168
                                        40
169
          Gly Leu Tyr Cys Gln Arg Leu Pro Ser Ser Arg Thr His Gly Gly Thr
170
171
          Glu Ser Leu Lys Gly Lys Asn Thr Glu Asn Met Gly Phe Tyr Gly Thr
172
173
                               70
          Leu Lys Met Ile Phe Tyr Lys Met Lys Arg Lys Leu Asp His Gly Ser
174
                           85
                                                90
175
          Glu Val Arg Ser Phe Ser Leu Gly Lys Lys Pro Cys Lys Val Ser Glu
176
                                           105
177
                      100
          Tyr Thr Ser Thr Thr Gly Leu Val Pro Cys Ser Ala Thr Pro Thr Thr
178
179
                                       120
          Phe Gly Asp Leu Arg Ala Ala Asn Gly Gln Gly Gln Arg Arg Arg
180
181
          Ile Thr Ser Val Gln Pro Pro Thr Gly Leu Gln Glu Trp Leu Lys Met
182
                               150
                                                   155
183
          Phe Gln Ser Trp Ser Gly Pro Glu Lys Leu Leu Ala Leu Asp Glu Leu
184
                                               170
185
          Ile Asp Ser Cys Glu Pro Thr Gln Val Lys His Met Met Gln Val Ile
186
                                           185
187
                      180
          Glu Pro Gln Phe Gln Arg Asp Phe Ile Ser Leu Leu Pro Lys Glu Leu
188
                                       200
                                                           205
189
          Ala Leu Tyr Val Leu Ser Phe Leu Glu Pro Lys Asp Leu Leu Gln Ala
190
                                                       220
                                   215
191
          Ala Gln Thr Cys Arg Tyr Trp Arg Ile Leu Ala Glu Asp Asn Leu Leu
192
                                                   235
                                                                        240
                               230
193
          225
```

194	Trp	Arg	Glu	Lvs	Cvs	Lys	Glu	Glu	Gly	Ile	Asp	Glu	Pro	Leu	His	Ile
195		5		-7-	245				•	250	•				255	
196	Lys	Arg	Arg	Lys	Val	Ile	Lys	${\tt Pro}$	Gly	Phe	,Ile	His	Ser	Pro	$\mathtt{Trp}$	Lys
197				260					265					270	_	
198	Ser	Ala	_	Ile	Arg	Gln	His		Ile	Asp	Thr	Asn		Arg	Arg	Gly
199			275	_	_	_		280	_	<b>~</b> 7	··· -	•	285	***	17.7	T1.
200	Glu	Leu	Lys	Ser	Pro	Lys		Leu	Lys	GIY	His		Asp	HIS	vaı	ше
201		290	_	<b>~</b> 7	D1	<b>G</b>	295	<b>3</b>	7	<b>T</b> 3.0	1707	300	C1	C.~	7 020	7 cn
202		Cys	Leu	GIn	Pne		GIĀ	Asn	Arg	11e		sei	GIY	ser	Asp	320
203	305	Thr	<b>.</b>	T	*** 1	310	C ~ ~	ח ד ת	1707	πh∽	315	Larc	Cvc	T.011	Ara	
204	Asn	Thr	ьeu	ьуѕ	325	пр	ser	АТА	vai	330	Gry	пуъ	Cys	Бец	335	1111
205	T 011	Val	Gl v	uic		Glv	Gl v	Va 1	Trn		Ser	Gln	Met	Ara		Asn
206 207	Leu	vaı	GIY	340	1111	GIY	GIY	vai	345	Jer	DCI	0111	1100	350	p	
207	Tla	Ile	τlם	_	Glv	Ser	Thr	Asp		Thr	Len	Lvs	Val		Asn	Ala
208	116	116	355	DCL	Ory	DCI		360				-1-	365			
210	Glu	Thr		Glu	Cvs	Ile	His		Leu	Tvr	Glv	His		Ser	Thr	Val
211	0	370	1		-1-		375			•	, •	380				
212	Ara	Cys	Met	His	Leu	His	Glu	Lys	Arq	Val	Val	Ser	Gly	Ser	Arg	Asp
213	385	•				390		Ī			395		_			400
214		Thr	Leu	Arg	Val	Trp	Asp	Ile	Glu	Thr	Gly	Gln	Cys	Leu	His	Val
215					405					410					415	
216	Leu	Met	Gly	His	Val	Ala	Ala	Val	Arg	Cys	Val	Gln	Tyr	Asp	Gly	Arg
217				420					425					430		
218	Arg	Val	Val	Ser	Gly	Ala	Tyr	Asp	Phe	Met	Val	Lys	Val	Trp	Asp	Pro
219			435					440		45			445	_		
220	Glu	Thr	Glu	Thr	Cys	Leu		Thr	Leu	Gln	Gly		Thr	Asn	Arg	Val
221		450					455		•			460	<b>~</b> 7	0	<b>T</b>	3
222	_	Ser	Leu	Gln	Phe		Gly	He	His	Val		ser	GIA	ser	ьeu	
223	465		- 7 -		**- 1	470	3	**- 7	<b>a</b> 1	mb se	475	7 an	Crra	т1.	uic	480
224	Thr	Ser	тте	Arg		Trp	Asp	vaı	GIU	490	GIY	ASII	Cys	116	495	1111
225	T 011	Thr	C1.,	uic	485	Sor	LOU	Thr	Sar		Met	G111	T.e.ii	Lvs		Asn
226	теи	1111	GIA	500	GIII	Ser	пеп	1111	505	Gry	FICE	GIU	Lea	510	1101	
227 228	Tla	Leu	Wa 1		Glv	Δen	Δla	Asn		Thr	Val	Lvs	Ile		Asp	Ile
229	116	пец	515	Der	OLY	non	7114	520				-1-	525			
230	Lvs	Thr		Gln	Cvs	Leu	Gln			Gln	Gly	Pro		Lys	His	Gln
231	275	530	_		-1-		535				•	540		-		
232	Ser	Ala		Thr	Cys	Leu		Phe	Asn	Lys	Asn	Phe	Val	Ile	Thr	Ser
233	545				•	550				_	555					560
234			Asp	Gly	Thr		Lys	Leu	Trp	Asp	Leu	Lys	Thr	Gly	Glu	Phe
235		_	_		565					570					575	
236	Ile	Arg	Asn	Leu	Val	Thr	Leu	Glu	Ser	Gly	Gly	Ser	Gly	Gly	Val	Val
237				580					585					590		
238	Trp	Arg	Ile	Arg	Ala	Ser	Asn	Thr	Lys	Leu	Val	Cys	Ala	Val	Gly	Ser
239			595					600					605			<b>-</b>
240	Arg		-	Thr	Glu	Glu		Lys	Leu	Leu	Val			Phe	Asp	Val
241		610					615					620				
242	Asp	Met	Lys													

RAW SEQUENCE LISTING ERROR SUMMARY
PATENT APPLICATION: US/10/653,676A

DATE: 01/13/2005 TIME: 09:46:31

Input Set : N:\Crf3\RULE60\10653676A.raw.txt
Output Set: N:\CRF4\01132005\J653676A.raw

## Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:1; N Pos. 2485,3372 Seq#:2; N Pos. 2506,3393 VERIFICATION SUMMARY

PATENT APPLICATION: US/10/653,676A

DATE: 01/13/2005 TIME: 09:46:31

Input Set : N:\Crf3\RULE60\10653676A.raw.txt Output Set: N:\CRF4\01132005\J653676A.raw

L:8 M:270 C: Current Application Number differs, Wrong Format

L:67 M:258 W: Mandatory Feature missing, <223> Tag not found for SEQ ID#:1

L:67 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1 after pos.:2460

M:341 Repeated in SeqNo=1

L:139 M:258 W: Mandatory Feature missing, <223> Tag not found for SEQ ID#:2

L:139 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2 after pos.:2460

M:341 Repeated in SeqNo=2